UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,547	06/20/2003	Masayuki Numao	JP920020102US1	6077
48813 7590 03/19/2008 LAW OFFICE OF IDO TUCHMAN (YOR) 82-70 BEVERLY ROAD VEW CARDENS NY 11415			EXAMINER	
			TOLENTINO, RODERICK	
KEW GARDENS, NY 11415			ART UNIT	PAPER NUMBER
			2134	
			NOTIFICATION DATE	DELIVERY MODE
			03/19/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ITUCHMAN@TUCHMANLAW.COM ido_tuchman@yahoo.com idotuchman@gmail.com

	Application No.	Applicant(s)
	10/600,547	NUMAO ET AL.
Office Action Summary	Examiner	Art Unit
	Roderick Tolentino	2134
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>01/0</u> This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-10 and 19-21 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 and 19-21 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	awn from consideration.	
9)☑ The specification is objected to by the Examin 10)☑ The drawing(s) filed on 20 June 2003 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the E	a) accepted or b) objected to edrawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

Art Unit: 2134

DETAILED ACTION

1. Claims 1 - 10 and 19 - 21 are pending. Applicant canceled claims 11 - 18 and 22 - 25.

Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Response to Arguments

- 3. Applicant's arguments with respect to claims 1, 3, 4, 6 10, 20 and 21, have been found to be persuasive. However, in light of Hirano et al. U.S. PG-Publication (2001/0004736) new rejections have been made.
- 4. Applicant's arguments with respect to claim 2 have been found not persuasive.
- 5. Applicant argues that Kawano fails to teach provider terminal distributes said encrypted content without specifying said user terminal that is to receive said encrypted content. Examiner respectfully disagrees. Kawano teaches provider terminal distributes said encrypted content without specifying said user terminal that is to receive said encrypted content (Kawano, Col.11 Lines 40 57). Kawano demonstrates the transmission of data without the need for recognizing a specific address of a

Art Unit: 2134

destination. It would be obvious to say that a terminal will exist at the destination for the transmission data.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1, 3, 4, 6 10, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto U.S. Patent No. (6,215,877) in view of Hirano et al. U.S. PG-Publication (2001/0004736).
- 8. As per claims 1, 20 and 21, Matsumoto teaches a key management server for managing secret keys and public keys corresponding to given attribute values and a provider terminal for generating an encrypted content that can be decrypted by said user terminal having said attribute secret keys corresponding to given attributes by means of said public keys (Matsumoto, Col. 2 Lines 60 67 and Col. 3 Lines 1 5), wherein said provider terminal distributes said encrypted content and said user terminal decrypts said encrypted content decryptable by means of said attribute secret keys of its own (Matsumoto, Col. 4 Lines 57 67) but fails to teach a user terminal for accessing said key management server to obtain attribute secret keys generated based on said secret keys, said attribute secret keys corresponding to attributes identifying

Application/Control Number: 10/600,547

Art Unit: 2134

said user terminal. However, in an analogous art Hirans teaches a user terminal for accessing said key management server to obtain attribute secret keys generated based on said secret keys, said attribute secret keys corresponding to attributes identifying said user terminal (Hirano, Paragraph 0098, key based on user's information).

Page 4

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Hirano's method for facilitating legitimate use of digital content with Matsumoto's key management server and chat system because it offers the advantage of protecting computerized data from unauthorized access (Hirano, Paragraph 0006).

- 9. As per claim 3, Matsumoto teaches user terminal sends a set of attribute values indicating attributes of its own to said key management server; and said key management server generates said attribute secret keys unique to said user terminal based on, among said secret keys managed by said key management server, secret keys corresponding to the attribute values sent from said user terminal and sends said attribute secret keys to said user terminal (Matsumoto, Col. 4 Lines 37 49).
- 10. As per claim 4, Matsumoto as modified teaches a key storage for storing secret keys and public keys corresponding to predetermined attribute values; an attribute secret key generator for obtaining a set of given attribute values and generating attribute secret keys corresponding to said set of attribute values based on secret keys corresponding to said attribute values among said secret keys stored in said key storage (Matsumoto, Col. 2 Lines 60 67 and Col. 3 Lines 1 5), and a sending/receiving unit for receiving said set of attribute values from a given user

Art Unit: 2134

terminal and sending said attribute secret keys generated by said attribute secret key generator to said user terminal (Matsumoto, Col. 4 Lines 57 – 67) wherein said attribute values identifying said user terminal (Hirano, Paragraph 0098, key based on user's information).

11. As per claim 6, Matsumoto teaches an encrypted content generator for encrypting said content based on said criteria keys (Matsumoto, Col. 9 Lines 45 – 65) and a sending unit for sending said encrypted content without specifying any recipient of said content via a network (Matsumoto, Col. 4 Lines 57 – 67) but fails to teach a criteria key generator for obtaining public keys corresponding to attribute values indicating attributes of a recipient to which a content is to be sent and using said public keys to generate criteria keys that can be decrypted by secret keys corresponding to said public keys. However, in an analogous art Hirano teaches a criteria key generator for obtaining public keys corresponding to attribute values indicating attributes of a recipient to which a content is to be sent and using said public keys to generate criteria keys that can be decrypted by secret keys corresponding to said public keys (Hirano, Paragraph 0098, key based on user's information).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Hirano's method for facilitating legitimate use of digital content with Matsumoto's key management server and chat system because it offers the advantage of protecting computerized data from unauthorized access (Hirano, Paragraph 0006).

Application/Control Number: 10/600,547

Art Unit: 2134

12. As per claim 7, Matsumoto teaches criteria key generator combines, based on predetermined rules, criteria keys corresponding to the individual attribute values encrypted by using public keys corresponding to said individual attribute values to generate a criteria key for restricting recipients of said content (Matsumoto, Col. 4 Lines 37 – 49).

Page 6

- 13. As per claim 8, Matsumoto disclose criteria key generator generates a session key for encrypting said content and a criteria key for decrypting said session key; and said encrypted content generator uses said session key to encrypt said content content (Matsumoto, Col. 4 Lines 37 49).
- 14. As per claim 9, Matsumoto teaches a sending/receiving unit for accessing a key management server managing (Matsumoto, Col. 4 Lines 57 67) and a decryptor for obtaining an encrypted content and decrypting said content based on said attribute secret keys (Matsumoto, Col. 11 Lines 2 8) but fails to teach secret keys and public keys corresponding to given attribute values to receive attribute secret keys corresponding to attributes established for identifying said information processing apparatus, said attribute secret keys being generated based on said secret keys. However, in an analogous art Hirano teaches teach secret keys and public keys corresponding to given attribute values to receive attribute secret keys corresponding to attributes established for identifying said information processing apparatus, said attribute secret keys being generated based on said secret keys (Hirano, Paragraph 0098, key based on user's information).

Art Unit: 2134

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Hirano's method for facilitating legitimate use of digital content with Matsumoto's key management server and chat system because it offers the advantage of protecting computerized data from unauthorized access (Hirano, Paragraph 0006).

- 15. As per claim 10, Matsmoto teaches sending/receiving unit sends a set of attribute values established for said information processing apparatus to said key management server and receives said attribute secrete keys generated based on said set of attribute values from said key management server (Matsumoto, Col. 4 Lines 37 49).
- 16. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto U.S. Patent No. (6,215,877) and Hirano et al. U.S. PG-Publication (2001/0004736), as applied to claim 1 and in further view of Kawano et al. U.S. Patent No. (5,933,605).
- 17. As per claim 2, Matsumoto fails to teach provider terminal distributes said encrypted content without specifying said user terminal that is to receive said encrypted content. However, in an analogous art Kawano teaches provider terminal distributes said encrypted content without specifying said user terminal that is to receive said encrypted content (Kawano, Col.11 Lines 40 57).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Kawano's apparatus for filtering multicast messages with Matsumoto's key management server and chat system because it offers the advantage

Art Unit: 2134

of have the data receiving operation that is not dependent on an expansion system (Kawano, Col.11 Lines 40 - 57).

- 18. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto U.S. Patent No. (6,215,877) and Hirano et al. U.S. PG-Publication (2001/0004736), and in view of Applicant Admittance Prior Art (hereafter AAPA).
- 19. As per claim 5, Matsumoto in view of Hirano fails to teach attribute secret key generator generates said attribute secret keys by using a protocol implementing oblivious transfer protocol. However, attribute secret key generator generates said attribute secret keys by using a protocol implementing oblivious transfer is taught by applicant on pages 14 and 15. The specification describes oblivious transfer protocol, in order to be used secretly obtain attribute secret keys.
- 20. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto U.S. Patent No. (6,215,877) in view of Applicant Admittance Prior Art (hereafter AAPA) and Mooney et al. U.S. Patent No. (5,610,981).
- 21. As per claim 19, Matsumoto teaches generating n secret keys and n public keys corresponding to said secret keys and storing said secret keys and public keys in a given storage, obtaining information about k (<=n) secret keys selected at random by a given client from among said n secret keys stored in said storage; reading said k secret keys corresponding to information about the obtained secret keys from said storage (Matsumoto, Col. 2 Lines 60 67 and Col. 3 Lines 1 5), and providing said generated

decryption keys to said client (Matsumoto, Col. 4 Lines 57 – 67) but fails to teach using a protocol for implementing oblivious transfer to generate decryption keys for decrypting information encrypted with said k public keys corresponding to the k secret keys and wherein n is the number of secret keys and public keys, and k is the number of the secret keys selected at random by the given client. However, teach using a protocol for implementing oblivious transfer to generate decryption keys for decrypting information encrypted with said k public keys corresponding to the k secret keys is taught by applicant on pages 14 and 15. The specification describes oblivious transfer protocol, in order to be used secretly obtain attribute secret keys. Further, in an analogous art Mooney teaches wherein n is the number of secret keys and public keys, and k is the number of the secret keys selected at random by the given client (Mooney, Col. 14 Lines 36 – 50).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Mooney's preboot protection for a data security system with Matsumoto's key management server and chat system because it offers the advantage of securing physical access to a computer system (Mooney, Col. 1 Lines 31 - 37).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roderick Tolentino whose telephone number is (571) 272-2661. The examiner can normally be reached on Monday - Friday 9am to 5pm.

Art Unit: 2134

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roderick Tolentino Examiner Art Unit 2134

Roderick Tolentino /R. T./ Examiner, Art Unit 2134

/Kambiz Zand/ Supervisory Patent Examiner, Art Unit 2134